			Class A waters shall contain no phosphorus or nitrogen unless naturally occurring. Class B waters shall						
			contain no phosphorus or nitrogen in such concentrations that would impair any existing or designated						
			uses, unless naturally occurring. Existing discharges containing either phosphorus or nitrogen which encourage cultural eutrophication shall be treated to remove phosphorus or nitrogen to ensure attainment						
NH NH		1999 x	and maintenance of water quality standards.						
1311	'	1999 X	No new or increased discharge of phosphorus into lakes or ponds. No new or increased discharge(s)				4	1 1	
			containing phosphorus or nitrogen to tributaries of lakes or ponds that would contribute to cultural						
NH	1 1	1999 x	eutrophication or growth of weeds or algae in such lakes and ponds.						
		1.000	Except as due to natural conditions, nutrients shall not be allowed in concentrations that cause						
			objectionable algal densities, nuisance aquatic vegetation, abnormal diurnal fluctuations in dissolved						
			oxygen or pH, changes to the composition of aquatic ecosystems, or otherwise render the waters						
			unsuitable for the designated uses						
			For acute aquatic life criteria, the design flow is the MA7CD10; for chronic aquatic life th e						
NJ	2	2003 x did not include flow	design flow is MA3CD10.				1	1	N N
NJ	2	2003 x	Numeric Phosphorus Standards for Lakes(0.05 mg/l) and Streams(0.1 mg/l) for Fresh Water	2	1				
NJ	2	2003 x	Numeric DO - varies by water classification (3.0-7.0 mg/L).	2					
			Surface waters of the state shall be free of water contaminants including fine sediment particles (less						
			than two millimeters in diameter), precipitates or organic or inorganic solids from other than natural						
			causes that have settled to form layers on or fill the interstices of the natural or dominant substrate in						
			quantities that damage or impair the normal growth, function or reproduction of aquatic life or significantly						
			alter the physical or chemical properties of the bottom.						
			Surface waters of the state shall be free of oils, scum, grease and other floating materials resulting from						
			other than natural causes that would cause the formation of a visible sheen or visible deposits on the						
			bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.						
			animal, plant or aquatic life.						
			Color-producing materials resulting from other than natural causes shall not create an aesthetically						
			undesirable condition nor shall color impair the use of the water by desirable aquatic life presently						
			common in surface waters of the state.						
			Water contaminants from other than natural causes shall be limited to concentrations that will not impart						
			unpalatable flavor to fish and will not result in offensive odor or taste arising in a surface water of the						
NM	6 2006	s x	state or otherwise interfere with the reasonable use of the water.					1	
			Plant nutrients from other than natural causes shall not be present in concentrations that will produce						
NM	6 2006	x	undesirable aquatic life or result in a dominance of nuisance species in surface waters of the state				1 1		
			The quality standards for class A waters are: Dissolved oxygen: ≥6.0 mg/l; Total phosphorus (as P): In						
			any stream at the point where it enters a reservoir or lake: ≤0.05 mg/l, In any reservoir or lake: ≤0.025						
NV	9	2007 x	mg/l, In a stream or other flowing water: ≤0.10 mg/l.		1				N N
NO.			The quality standards for class B waters are: Dissolved oxygen: Trout waters. ≥6.0 mg/l, All other waters:						
NV	9 2007	X	≥5.0 mg/l; Total phosphorus (as P): ≤0.10 mg/l.						N N
l _{NV}	9 2007	,	The quality standards for class C waters are: Dissolved oxygen: Trout waters: ≥ 6.0 mg/l, All other waters: ≥ 5.0 mg/l; Total phosphorus (as P): ≤ 0.33 mg/l.						
									N N
NV	9 2007	X	The quality standards for class D waters are: Dissolved oxygen: ≥3.0 mg/l.						N N
NY		1999 x	Nitrogen and Phosphorus - None in amounts that will result in growths of algae, weeds and slimes that will impair the waters for their best usages.						
NIX	2		-					1 1	IN IN
IN Y	2	1999 x	Numeric DO depending on Class of waters (3.0 mg/l to 6.0 mg/l) Free from nutrients entering the waters as a result of human activity in concentrations that create						
Юн	5 1998		nuisance growths of aquatic weeds and algae						
011	0 1000	^	In areas where nuisance growths exist, phosphorus discharges from point sources determined significant		 				
			by the director shall not exceed a daily average of 1 milligram per liter as total P, or such stricter						
			requirements as may be imposed by the director in accordance with the international joint commission						
ОН	5 2002		(United States-Canada agreement).			3 1			
			Total phosphorus as P shall be limited to the extent necessary to prevent nuisance growths of algae,						
			weeds, and slimes that result in a violation of the water quality criteria set forth in paragraph (E) of rule						
ОН	5 2002	2	3745-1-04 of the Administrative Code or, for public water supplies, that result in taste or odor problems.		1				
			DO: Numeric criteria ranging from 2.0 – 7.0 mg/L, given in terms of both an outside mixing zone maximum						
			(OMZM) and average (OMZA), depending on the time of year and whether the water is a warmwater						
ОН	E 2000		habitat, exceptional warmwater habitat, modified warmwater habitat, limited resource water, or seasonal salmonid habitat.						61 B1
	5 2002	- X	Wetland Criteria: The hydrology necessary to support the biological and physical characteristics naturally						IN IN
			present in wetlands shall be protected to prevent significant adverse impacts on: Chemical, nutrient and						
ОН	5 1998	y	dissolved oxygen regimes of the wetland				1 1		
	- 1000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-		
			Wetland Criteria: Water quality shall be protected to prevent conditions conducive to the establishment or						
ОН	5 1998	x x	proliferation of nuisance organisms, as that term is defined in rule 3745-1-50 of the Administrative Code.						
			Wetland Criteria: The hydrology necessary to support the biological and physical characteristics naturally						
			present in wetlands shall be protected to prevent significant adverse impacts on: Chemical, nutrient and						
ОН	5 1998	s x	dissolved oxygen regimes of the wetland				1		
			OAC 785:45-3-2(c) prohibits water quality degradation by nutrients which will interfere with the attainment						
			or maintenance of any existing or designated beneficial use. OAC 785:46-13-3(a)(1) requires						
			maintenance of any existing or designated beneficial use. This Section provides a framework which shall						
			be used in assessing threats or impairments to beneficial uses and waterbodies and watersheds caused						
ОК	6	Not found	by nutrients, and the consequences of such assessments.		1			1	

															
				Surface waters of the state shall be free of water contaminants including fine sediment particles (less than two millimeters in diameter), precipitates or organic or inorganic solids from other than natural											
				causes that have settled to form layers on or fill the interstices of the natural or dominant substrate in quantities that damage or impair the normal growth, function or reproduction of aquatic life or significantly alter the physical or chemical properties of the bottom.											
				Surface waters of the state shall be free of oils, scum, grease and other floating materials resulting from other than natural causes that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human,											
				animal, plant or aquatic life.											
				Color-producing materials resulting from other than natural causes shall not create an aesthetically undesirable condition nor shall color impair the use of the water by desirable aquatic life presently common in surface waters of the state.											
ок	6		General criteria not included with nutrient specific	Water contaminants from other than natural causes shall be limited to concentrations that will not impart unpalatable flavor to fish and will not result in offensive odor or taste arising in a surface water of the state or otherwise interfere with the reasonable use of the water.					6 1	1	1 1	1 1	2 1 1 1		
ок	6		x	Nutrients from point source discharges or other sources shall not cause excessive growth of periphyton, phytoplankton, or aquatic macrophyte communities which impairs any existing or designated beneficial use				1	a						
				Notwithstanding the WQS contained in this Division, the highest and best practicable treatment and/or control of wastes, activities, and flows must in every case be provided so as to maintain dissolved											
OR	10	2007	General criteria not included with nutrient specific	oxygen and overall water quality at the highest possible levels and water temperatures, coliform bacteria concentrations, dissolved chemical substances, toxic materials, radioactivity, turbidities, color, odor, and other deleterious factors at the lowest possible levels.					4 1	1	1	1			
OR	10	2007	General criteria not included with nutrient specific	The development of fungi or other growths having a deleterious effect on stream bottoms, fish or other aquatic life, or that are injurious to health, recreation, or industry may not be allowed					51 1				1		
OR	10	2007	General criteria not included with nutrient specific	The creation of tastes or odors or toxic or other conditions that are deleterious to fish or other aquatic life or affect the potability of drinking water or the palatability of fish or shellfish may not be allowed	1 0				2		1	1	1		
OR	10	2007	General criteria not included with nutrient specific	Objectionable discoloration, scum, oily sheens, or floating solids, or coating of aquatic life with oil films may not be allowed					3	1	1	1			
OR	10	2007	General criteria not included with nutrient specific	Aesthetic conditions offensive to the human senses of sight, taste, smell, or touch may not be allowed					2			1 1	0		
OR	10	2007	General criteria not included with nutrient specific	Waters of the State must be of sufficient quality to support aquatic species without detrimental changes in the resident biological communities											
	10	2007	Hutrient specific	Nitrates (concentration in units per liter not to be exceeded in waters of the state in order to protect											
OR	10 2007		X	human health): Water and Fish ingestion: 10mg, Drinking Water MCL: 10 mg. Phosphorous elemental (concentration in micrograms per liter not to be exceeded in waters of the state in	2		1		0					1	N N
OR	10 2007		×	order to protect aquatic life): Marine chronic criteria: 0.1 µg/L (chronic criteria refer to the average concentration for 96 hours (4 days), and that these criteria should not be exceeded more than once every three (3) years).	2	1			8				0	У	y N
				Nuisance Phytoplankton Growth. The following values and implementation program must be applied to lakes, reservoirs, estuaries and streams, except for ponds and reservoirs less than ten acres in surface area, marshes and saline lakes. The average Chlorophyll a values must be used to identify water bodies											
OR	10 2007		X	where phytoplankton may impair the recognized beneficial uses: Natural lakes that thermally stratify: 0.01 mg/1; Natural lakes that do not thermally stratify, reservoirs, rivers and estuaries: 0.015 mg/1. Numeric DO: Range of DO criteria from min of 5.5-8 mg/l as absolute minimum, depending on whether					2 1 1				1		N N
				the area is identified as an active spawning area, an estuary, or as providing cold, cool, or warm-water aquatic life. Where conditions of barometric pressure, altitude, and temperature preclude attainment for											
			Company and an analysis of the state of the	active spawning and cold-water aquatic life areas, DO may not be less than 90% saturation. If the Department determines that adequate info exists for cold, cool, and warm aquatic life areas, 5.5-8 mg/l											
OR	10 2007		General criteria not included with nutrient specific	can be a minimum for 30-day mean, with smaller levels of DO, ranging from 4-6 mg/l, allowed as seven-day and absolute minimums.	2				1 1				D	1	N N
OR	10 2007		General criteria not included with nutrient specific	Narrative DO: Where conditions of barometric pressure, altitude, and temperature preclude attainment for active spawning and cold-water aquatic life areas, DO may not be less than 90% saturation. For ocean waters, no measurable reduction in dissolved oxygen concentration may be allowed.					1						
PA	3 2006	2006	×	Water may not contain substances attributable to point or nonpoint source discharges in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life					6					1	N N
PA	3 2006		x	In addition to other substances listed within or addressed by this chapter, specific substances to be controlled include, but are not limited to, floating materials, oil, grease, scum and substances that produce color, tastes, odors, turbidity or settle to form deposits.					6	1	1 1	1 1 1			
				Numeric DO standard for flowing waters, minimum daily average 6.0 mg/l; minimum 5.0 mg/l. For lakes, ponds and impoundments, minimum 5.0 mg/l. For the period February 15 to July 31 of any TSF year, minimum daily average 6.0 mg/l; minimum 5.0 mg/l. For the remainder of the year, minimum daily average											
PA	3 2006	2006	X	5.0 mg/l; minimum 4.0 mg/l. Numeric for Phosphorus - Total phosphorus shall not exceed 1 ppm (mg/), in surface water bodies upstream from reservoirs, in segments of surface water bodies with drinking water intakes or estuarine	4										
				waters except when it is demonstrated to the satisfaction of the Board that a higher value of total phosphorus in combination with prevailing nitrogen derived nutrients will not contribute to eutrophic conditions in the water body.											
IPR	12	2003	X	T		1									
PR	2	2003		The minimum flow for all WQS is the 7Q2.	1	1								I I	N Y

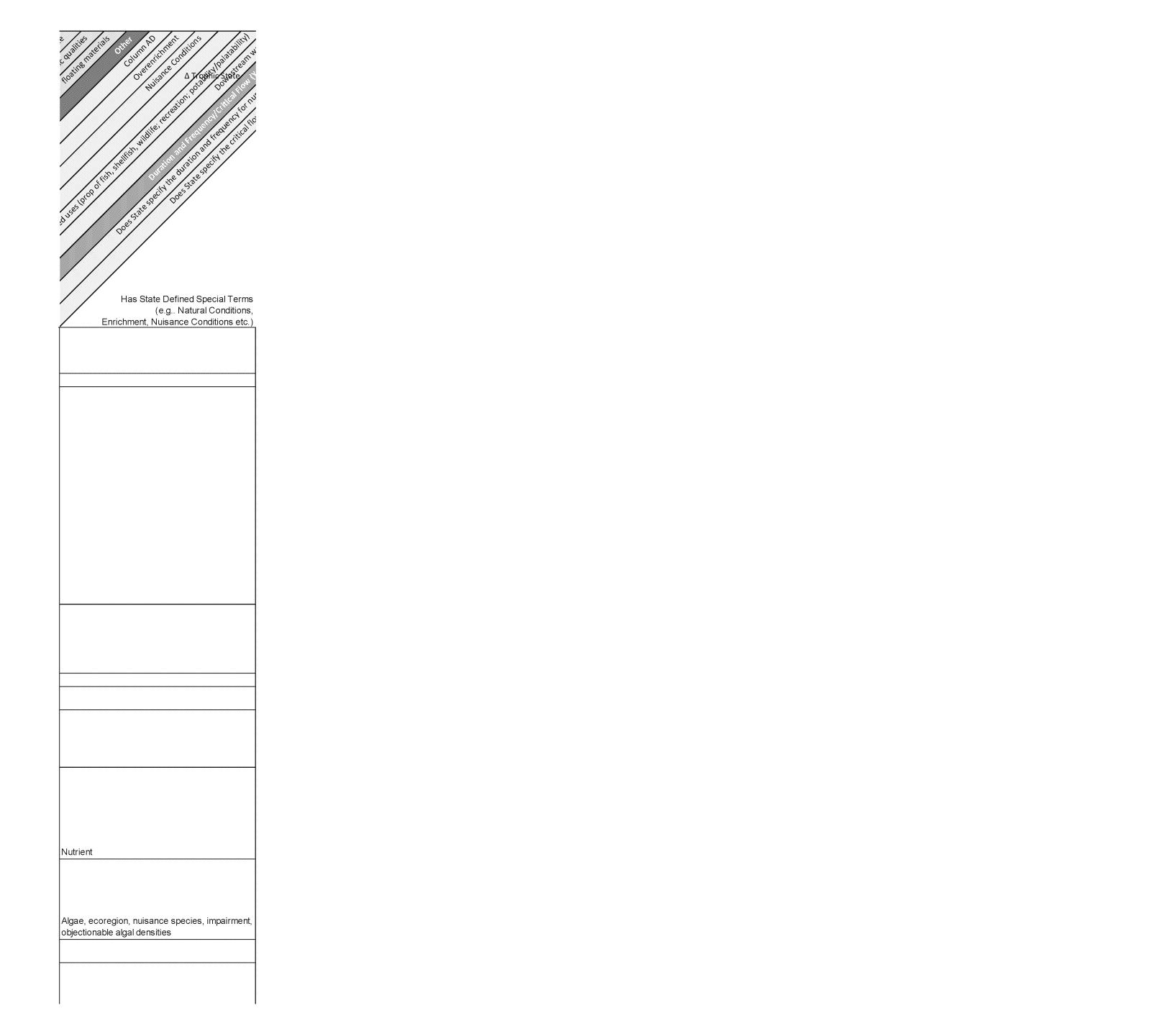
F	Т	г			T											
					No nutrients in such concentration that would impair any usages specifically assigned to said class, or											
					cause undesirable or nuisance aquatic species associated with cultural eutrophication. New discharges											
					of wastes containing phosphates will not be permitted into or immediately upstream of lakes or ponds. Phosphates shall be removed from existing discharges to the extent that such removal is or may become											
RI	1		2006	Y	technically and reasonably feasible.				1					1		
1.1.					Numeric - Average Total Phosphorus shall not exceed 0.025 mg/l in any lake, pond, kettlehole or				-					-		
					reservoir, and average Total P in tributaries at the point where they enter such bodies of water shall not											
					cause exceedance of this phosphorus criteria, except as naturally occurs, unless the Director determines, on a site-specific basis, that a different value for phosphorus is necessary to prevent											
					cultural eutrophication.											
RI	1		2006	×	The minimum flow for aquatic life criteria is the 7Q10 flow for freshwaters.				1			1			N Y	
					Seasonal Numeric Dissolved Oxygen for both warm (>=75% saturation; 5-9.5 mg/L) and cold (>=60%											
					saturation; 5-6 mg/L) fresh water fish habitats and an entire process for determining appropriate DO levels for Saltwater (1.4-4.8 mg/L) numeric criteria, considered protective of Aquatic Life Uses, for											
				General criteria not included with	surface waters above a seasonal pycnocline, below a seasonal pycnocline, and without a seasonal											
RI	1		2006	nutrient specific	pycnocline.	7		1								
					Numeric nutrient criteria for lakes are based on an ecoregional approach which takes into											1
					account the geographic location of the lakes within the State and are listed below. These numeric criteria are applicable to lakes of 40 acres or more. Lakes of less than 40 acres											
					will continue to be protected by the narrative criteria. Ecoregional criteria are as follows. TP=0.02-0.09											
					mg/L. TN=0.35-1.50 mg/L. Chl-a=10-40 ug/L.											
sc	4	2004	2004	X	Aquatic life criteria use the 7Q10 design flow or tidal conditions.		1 1	1								4
					Discharges of nutrients from all sources, including point and nonpoint, to waters of the State shall be prohibited or limited if the discharge would result in or if the waters experience growths of microscopic or											
					macroscopic vegetation such that the water quality standards would be violated or the existing or											
sc	4	2004	2004	X	classified uses of the waters would be impaired		1									
					Raw or treated sewage, garbage, rubble, unpermitted fill materials, municipal wastes, industrial wastes, or											
					agricultural wastes which produce floating solids, scum, oil slicks, material discoloration, visible gassing,											
					sludge deposits, sediments, slimes, algal blooms, fungus growths, or other offensive effects may not be											
SD	8	1999		Х	discharged or caused to be discharged into surface waters of the state			1		1 1	1					
					Materials which produce nuisance aquatic life may not be discharged or mused to be discharged into surface waters of the state in concentrations that impair a beneficial use or create a human health											
SD	8	1999		×	problem.			1						1		
					Numeric DO ranges from > or = 4.0 (where there is marginal fish propagation) to > or = 7.0 (cold water											
SD	8	1999	***************************************	X	where the is permanent fish propagation during the spawning season).	-		1							N N	
SD	8	1999		Y	Numeric Nitrates criteria is for fish and wildlife propagation, recreation, and stock watering = <or +="" 30="" 50="" 88="" <="" =="" and="" avg="" daily="" day="" l="" max<="" mg="" or="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>lu lu</th><th></th></or>										lu lu	
		1000			Ing. 100 day ang ana or oo nig. 1 dan, max										1.4	1
					The waters shall not contain nutrients in concentrations that stimulate aquatic plant and/or algae growth to											
					the extent that aquatic habitat is substantially reduced and/or the biological integrity fails to meet regional goals. The quality of downstream waters shall not be detrimentally affected. The waters shall not contain											
					nutrients in concentrations that stimulate aquatic plant and/or algae growth to the extent that the public's											
					recreational uses of the stream or other downstream waters are detrimentally affected											
					Criteria based on ambient aquatic life shall be considered independent of a minimum flow duration and recurrence											
TN	4	2008	2008	Y	duration and recurrence									1 1	N N	
		2000						_							1.	1
			0000		Interpretation of this provision may be made using the document Development of Regionally-based											
TN	-	2008	2008	X	Interpretations of Tennessee's Narrative Nutrient Criterion and/or other scientifically defensible methods. Under nutrient-response criteria: Site specific Chlorophyll a = 18 ug/l April - September.											4
114	4	2008	2008		Narrative DO. There shall always be sufficient dissolved oxygen present to prevent odors of			1 L								4
TN	<u> </u>	2008	2008	x	decomposition and other offensive conditions for everything except Fish and Aquatic life use.			1		1						
T. 1		0.5.5			Numeric DO for fish and aquatic life use: criteria ranging from no less than 4.0-7.0 mg/l, depending on											1
TN	4	2008	2008	X	use and ecoregion. Nutrients from permitted discharges or other controllable sources shall not cause excessive growth of	- /-								1		4
TX	6			X	aquatic vegetation which impairs an existing, attainable, or designated use											
																1
					It shall be unlawful for any person to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances											
					such as color, odor or taste; or cause conditions which produce undesirable aquatic life or which produce											1
					objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of											
					substances which produce undesirable physiological responses in desirable resident fish, or other											
lut	8			Y	desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures						1 1 1		1			
	 			^	Ches Bay - Numeric Standards: Dissolved Oxygen (differs by use) , range 4.0 - /.0 mg/l. Submerged								4			1
					aquatic vegetation & clarity (for shallow water submerged aquatic vegetation use) (Seasonal and											
					range from 0 - 15,901 SAV acres). TP (only if apply algicide) for man-made lakes and reservoirs 10 - 40 ug/l depending on waterbody & scenic rivers (not to exceed 0.1 mg/l monthly avg and embayments. Chl-a											
					for man-made lakes and reservoirs and for open water use (range 10 - 60ug/l). Elemental phosphorus											
					(Chronic Saltwater = 0.10 ug/l)											
		000-	0007		Design flow for acute aquatic life is 1Q10, and fpr chronic aquatic life is 7Q10.											
VA	3	2007	2007	x did not include flow				1 1							N N	4
					Ches Bay for Open Waters - Concentrations of chlorophyll a in free-floating microscopic aquatic plants											
					(algae) shall not exceed levels that result in undesirable or nuisance aquatic plant life, or render tidal											
					waters unsuitable for the propagation and growth of a balanced, indigenous population of aquatic life or otherwise result in ecologically undesirable water quality conditions such as reduced water clarity, low											
					dissolved oxygen, food supply imbalances, proliferation of species deemed potentially harmful to aquatic											
VA	3	2007	2007	X	life or humans or aesthetically objectionable conditions.			1 1 1		1	1					
																_

												
				Nutrient Enriched Waters Special Designation - The Board recognizes that nutrients are contributing to								
				undesirable growths of aquatic plant life in surface waters of the Commonwealth. This standard								
				establishes a designation of "nutrient enriched waters". Designations of surface waters of the								
				Commonwealth as "nutrient enriched waters" are determined by the Board based upon an evaluation of the historical water quality data for one or more of the following indicators of nutrient enrichment:								
VA	3 2007	2007	X	chlorophyll "a" concentrations, dissolved oxygen fluctuations, and concentrations of total phosphorus.		1 1 1 1	1 1 1					
VI	2	1996	X	Numeric for Phosphorus - Shall not exceed 50 ug/l (.05 mg/l) for any water.	2	1				1		N N
				Numeric for Dissolved Oxygen - depends on class of waters - range 5.0 - 5.5 mg/l other than natural								
VI	2	1996	X	conditions			1 1			1		
				Total phosphorus loadings shall be limited so that they will not contribute to the acceleration of								
				eutrophication or the stimulation of the growth of aquatic biota in a manner that prevents the full support								
				of uses. Nitrates shall be limited so that they will not contribute to the acceleration of eutrophication or								
VI	1 1	2006	X	the stimulation of the growth of aquatic biota in a manner that prevents the full support of uses.		1 1 1	1 1			1	1	N N
VI	1	2006	X	Numeric DO, varies by Class and type of water. (5-7 mg/L, 60-75% saturation)							- 	
VT	1 1	2006	X	Numeric Standard for Nitrate on all waters; varies by class (not to exceed range 2.0 to 5.0 mg/l).								N N
				, , , , , , , , , , , , , , , , , , , ,								
				Toxic, radioactive, or deleterious material concentrations must be below those which have the potential,								
WA .		4007		either singularly or cumulatively, to adversely affect characteristic water uses, cause acute or chronic								
IVVA —	10	1997	X	conditions to the most sensitive biota dependent upon those waters, or adversely affect public health Lake nutrient criteria. The following shall be used to aid in establishing nutrient criteria for the Coast							1	
				Range, Puget Lowlands, Northern Rockies Ecoregions, Cascades Ecoregion, adn Columbia Basin								
				Ecoregion Numeric TP criteria range from <=4 to 35, based on trophic state (ultra-oligotrophic,								
				oligotrophic, lower & upper mesotrophic) and ambient TP. Action Valuess of >10 - >20 (depending on								
WA	10	1997	Х	factors above): lake specific study may be initiated. Any wastewater discharger may be required to remove excess amounts of phosphorus. Effluent		1 1						
				limitations for total phosphorus based on surface water quality may be established where, in the best								
				professional judgment of the department, such limitations will result in an improvement in water quality, or								
				preserve the quality of surface waters where long-term discharges may result in impairment of water								
WI	5	1998	X	quality.		1						
				 Except for natural conditions, all waters classified for fish and aquatic life shall meet the following criteria:								
				(a) Dissolved oxygen. Except as provided in par. (e) and s. NR 104.02 (3), the dissolved oxygen content								
				in surface waters may not be lowered to less than 5 mg/L at any time. (e) 2. Dissolved oxygen in								
				classified trout streams shall not be artificially lowered to less than 6.0 mg/L at any time, nor shall the								
				dissolved oxygen be lowered to less 7.0 mg/L during the spawning season.								
				In the case of DO determination of WQBELs will be based on application of 0.274% level of nonattainment (Nonattainment of DO one day per year.) Other parameters, except toxic								
lwi	5	X (did not include flow	parameters amd WET, are based on the 7Q10 low flow.						1 1	1	
	+ • + -			Streams classified as trout waters by the department of natural resources or as great lakes or cold water			-				- -	
				communities may not be altered from natural background temperature and dissolved oxygen levels to								
				such an extent that trout populations are adversely affected. [] 3. The dissolved oxygen in great lakes								
wı	5			tributaries used by stocked salmonids for spawning runs shall not be lowered below natural background during the period of habitation.								
VVI			X	Wetland water quality standards. To protect, preserve, restore and enhance the quality of waters in								
				wetlands and other waters of the state influenced by wetlands, the following water quality related functional								
				values or uses of wetlands, within the range of natural variation of the affected wetland, shall be								
				protected: Filtration or storage of sediments, nutrients or toxic substances that would otherwise								
WI	5		X	adversely impact the quality of other waters of the state;								
				 Wetland water quality standards. Hydrological conditions necessary to support the biological and physical								
				characteristics naturally present in wetlands shall be protected to prevent significant adverse impacts on:								
WI	5		X	The chemical, nutrient and dissolved oxygen regime of the wetland;		1	1					
				Total phosphorus shall not exceed 50 μg/l for warm water lakes and 30 μg/l for cool water lakes based on								
				an average of four or more samples collected during the period May 1–October 31. Chlorophyll-a shall not exceed 30 µg/l for warm water lakes and 15 µg/l for cool water lakes based on an average of four or								
wv	3	2009	Х	more samples collected during the period May 1–October 31.	2							$ _{N}$
				No Class 1, 2, or 3 waters shall contain substances attributable to or influenced by the activities of man								
				that produce taste, odor and color or that would impart an unpalatable or off-flavor in fish flesh; visibly								
				after the natural color of the water or impart color to skin, clothing, vessels or structures; produce								
				detectable odor; or directly or through interaction among themselves, or with chemicals used in existing water treatment processes, result in concentrations that will impart undesirable taste or odor to public								
WY	8		X	water supplies								
				§5103 A. 1. All waters shall meet generally accepted aetheitic qualifications, shall be capable of								
				supporting desirable aquatic life, and shall be free from substances, conditions, or combinations thereof attributable to domestic, commercial, and industrial discharges or agricultural, construction and land-use								
				practices or other human activities that: a. cause visible floating materials, debris, oils, grease, scum,								
				foam, or other floating matter which degrades water quality or use; b. produce visible turbidity, settle to								
				form deposits or otherwise adversely affect aquatic life; c. produce objectionable color, odor, or taste,								
GU	9	2001		directly or by chemical or biological action; d. injure or are toxic or harmful to humans, animals, plants or								
		2001		aquatic life; or e. induce the growth of undesirable aquatic life. Numeric Criteria for Groundwater: Nitrate - 10 mg/l Nitrite - 1 mg/l Turbidity - 1 NTLI				1 1	1 1 1 1			N N
GU	9	2001		Numeric Criteria for Groundwater: Nitrate - 10 mg/L, Nitrite - 1 mg/L, Turbidity - 1 NTU	2	2	2		2			

NE 7	2009 x	Any human activity causing water pollution which would significantly degrade the biological integrity of a body of water or significantly impact or displace an identified "key species" shall not be allowed except as specified in Chapter 2.	1 8	1	
NE 7	2009 x	Aesthetic beneficial use (Applicable to all surface waters): This use applies to all surface waters of the state. To be aesthetically acceptable, waters shall be free from human-induced pollution which causes: 1) noxious odors; 2) floating, suspended, colloidal, or settleable materials that produce objectionable films, colors, turbidity, or deposits; and 3) the occurrence of undesirable or nuisance aquatic life (e.g., algal blooms). Surface waters shall also be free of junk, refuse, and discarded dead animals. Aquatic life beneficial use -	1 0 1 1	1 1 1 1	N N
AS 9	2005 x	Numeric criteria for ocean waters Turbidity - 0.20 NTU Total P - 11.0 ug/L Total N - 115.0 ug/L Chlorophyll a - 0.18 ug/L Light Penetration Depth (to exceed given value 50% of the time) - 150.0 ft DO - Not less than 80 % saturation or less than 5.5 mg/L. If the natural level is less than 5.5 mg/L, the natural level will become the standard	2 2 2 2 2 2	2 2	N N
AS 9	2005 x	Numeric criteria for open coastal waters Turbidity - 0.25 NTU Total P - 15.0 ug/L Total N - 130.0 ug/L Chlorophyll a - 0.25 ug/L Light Penetration Depth (to exceed given value 50% of the time) - 130.0 ft DO - Not less than 80 % saturation or less than 5.5 mg/L. If the natural level is less than 5.5 mg/L, the natural level will become the standard	2 2 2 2 2 2	2 2	N N
AS 9	2005 x	Numeric criteria for Fagatele Bay and Pala Lagoon Turbidity - 0.25 NTU (Fagatele Bay); 0.75 NTU (Pala Lagoon) Total P - 15.0 ug/L Total N - 135.0 ug/L Chlorophyll a - 0.35 ug/L Light Penetration Depth (to exceed given value 50% of the time) - 130.0 ft DO - Not less than 80 % saturation or less than 5.5 mg/L. If the natural level is less than 5.5 mg/L, the natural level will become the standard	2 2 2 2 2 2	2 2	N N
AS 9	2005 x	Numeric criteria for Pago Pago Harbor Turbidity - 0.75 NTU Total P - 30.0 ug/L Total N - 200.0 ug/L Chlorophyll a - 1.0 ug/L Light Penetration Depth (to exceed given value 50% of the time) - 65.0 ft DO - Not less than 70 % saturation or less than 5.0 mg/L. If the natural level is less than 5.0 mg/L, the natural level will become the standard	2 2 2 2 2 2	2 2	N N
AS 9	2005 x	Numeric criteria for embayments (except Pago Pago Harbor, Fagatele Bay and Pala Lagoon) Turbidity - 0.35 NTU Total P - 20.0 ug/L Total N - 150.0 ug/L Chlorophyll a - 0.5 ug/L Light Penetration Depth (to exceed given value 50% of the time) - 120 ft DO - Not less than 70 % saturation or less than 5.0 mg/L. If the natural level is less than 5.0 mg/L, the natural level will become the standard	2 2 2 2 2 2	2 2	N N
AS 9	2005 x	Turbidity - 5.0 NTU Total Phosphorus - 150.0 ug/L P Total Nitrogen - 300 ug/L TSS - 5.0 mg/L Light Penetration Depth (to exceed given value 50% of the time) - 65.0 feet DO - Not less than 75% saturation or less than 6.0 mg/L. If the natural levels is less than 6.0 mg/L the natural level shall become the standard.	2 2 2 2 2	2 2	N N
AS 9	2005 x	(a) They shall be substantially free from materials attributable to sewage, industrial wastes, or other activities of man that will produce objectionable color, odor, or taste;(b) They shall be substantially free from visible floating materials, grease, oil, scum, foam, and other floating material;(d) They shall be substantially free from substances and conditions or combinations thereof attributable to sewage, industrial wastes, or other activities of man which may be toxic to humans, other animals, plants, and aquatic life or produce undesirable aquatic life;(c) They shall be substantially free from materials attributable to sewage, industrial wastes, or other activities of man that will produce visible turbidity or settle to form objectionable deposits. Numeric Criteria for fresh surface waters:	1 0 1	1 1 1 1	
GU 9	2001	Numeric Criteria for Marine and Surface Waters: Nutrients - a. Phosphorus - Orthophosphate P - 0.025 mg/L for class M-1 a and S-1 waters; 0.05 mg/L for M-2 and S-2 waters; 0.10 mg/L for M-3 and S-3 waters. B. Nitrogen - Nitrate N - 0.10 mg/L for M-1 and S-1; 0.20 mg/L for M-2 and S-2; 0.50 mg/L for M-3 and S-3. Ammonia -N criteria(CMC and CCC) vary with pH for S-1, S-2 and S-3. The concentration of dissolved oxygen shall not be decreased to less than 75% saturation at any time, as influenced by salinity or naturally occurring temperature variations. When natural conditions cause lower DO levels, controllable water quality factors shall not cause further reductions. Concentrations of suspended matter at any point shall not be increased from ambient conditions at any time and total concentration should not exceed 5 mg/L (M-1 and S-1); 20 mg/L (M-2 and S-2); and 40 mg/L (M-3 and S-3).	2 2 2 2 2 2 2	2	N N

				Coldwater Aquatic life beneficial use-		
				D.O. : 1-day minimum of not less than 8.0 mg/L for salmonid early-life stages (Oct 1 - May 31)		
				1-day minimum of not less than 4.0 mg/L for all life stages othern than early salmonid (June 1 - Sept 30) 7-day mean minimum of not less than 5.0 mg/L (June 1- Sept 30)		
				7-day mean of not less than 9.5 mg/L for salmonid early life stages (Oct 1 - May 31) 30-day mean of not less than 6.5 mg/L (June 1 - Sept 30)		
				Additional site-specific DO criteria apply to Lake Ogallala		
NE	7	2009		Criteria do not apply to streams assigned coldwater A or B or warmwater A when flow is less than 0.1 cfs or the 7Q10/ For Warmwater B, the critical flow is 0.1 cfs.	2 2	N Y
				Warmwater Aquatic life beneficial use:		
				D.O.: 1-day minimum of not less than 5.0 mg/L for early life stages (Apr 1 - Sept 30) 1-day minimum of not less than 3.0 mg/L for all life stages other than early life stages (Oct 1 - Mar 31)		
				7-day mean minimum of not less than 4.0 mg/L (Oct 1 - Mar 31) 7-day mean of not less than 6.0 mg/L for early life-stages (Apr 1 - Sept 30)		
NE	7	2009	X	30-day mean of not less than 5.5 mg/L (Oct 1 - Mar 31)		N Y
				Warmwater beneficial use: D.O. : 1-day minimum of not less than 5.0 mg/L for early life stages (Apr 1 - Sept 30)		
				1-day minimum of not less than 3.0 mg/L for all life stages other than early-life stages (Oct 1 - Mar 31) 7-day mean minimum of not less than 4.0 mg/L (Oct 1 - Mar 31)		
NE	7	2009		7-day mean of not less than 6.0 mg/L for early life-stages (Apr 1 - Sept 30) 30-day mean of not less than 5.5 mg/L (Oct 1 - Mar 31)		N Y
111		2003		Nutrient Criteria for Lakes and Impounded Waters: Lake or Impounded Waters Total Phosphorus Total Nitrogen Chlorophyll a		
				Classification: Codes (ug/l) (ug/l) (ug/l) Reservoirs: R1 54 1310 7		
				R2 54 1310 7		
				R3 112 570 8 R4 1050 1980 5		
				R5 69 660 24 R6 54 1310 7		
				R7 37 610 7 R8 38 610 11		
				R9 62 570 8 R10 38 520 9		
				R11 131 600 11 R12 134 1460 44		
				R13 143 1540 16 R14 134 1460 44		
				R15 133 1460 44 R16 111 1070 30		
				R17 134 1460 44 R18 139 1460 44		
				R19 873 1980 5		
				R20 746 1980 5 R21 709 1980 5		
				R22 873 2760 14 Sandpits: SP 95 1240 49		
				SandHills: SH 3000 38960 341 Statewide Default: SW 564 2300 29		
NE	7	2009		Public Water Supply beneficial use:		N N
NE	7	2009	Χ	Nitrate - N: 10 mg/L Nitrite-N: 1 mg/L	2 2 2	
NE	7	2009		Agriculture beneficial use - Nitrate and Nitrite -N : 100 mg/L		
MP	9	N		N Nitrate Nitrogen shall not exceed 0.20 mg/L in Class AA waters (marine, waters that should remain in	1 1 1 1 1 1	
MP	9	2004		natural, pristine state with minimal pollution) and 0.50 mg/L in Class A waters (marine, aquatic life and recreation uses)		N N
	-	2001		Total Nitrogen shall not exceed 0.4 mg/L in Class AA waters, shall not exceed 0.75 mg/L in Class A waters and Class 1 waters (freshwaters that should remain in natural, pristine state with minimal pollution		
MP	9	2004), and shall not exceed 1.50 mg/L in Class 2 waters (freshwaters, aquatic life, recreation, industrial, and agricultural uses)		N N
1,,,,				Orthophosphate shall not exceed 0.025 mg/L in Class AA waters, shall not exceed 0.05 mg/L in Class A		
MP	9	2004		waters, and shall not exceed 0.10 mg/L in Class 1 and Class 2 waters Total Phopshorus shall not exceed 0.025 mg/L in Class AA waters, shall not exceed 0.05 mg/L in Class A		N N
MP	9	2004		waters, and shall not exceed 0.10 mg/L in Class 1 and Class 2 waters Concentration of dissolved oxygen in all waters shall not be less than 75%	4 3 3	N N
MP	9	2004		saturation. Where natural conditions cause lower dissolved oxygen levels, controllable water quality factors shall not cause further reductions.	2 1 1	N N
				Concentrations of suspended matter at any point shall not be increased from ambient conditions at any time, and should not exceed 5 mg/l for Class AA and Class 1 waters or 40 mg/L for Class A and Class 2		
				waters except when due to natural conditions. Turbidity at any point shall not exceed 0.5 NTU over ambient conditions in Class AA and Class 1 waters and shall not exceed 1.0 NTU over ambient		
MP	9	2004	X	conditions in Class A and Class 2 waters. Nitrate (N) - 10,000 ug/L (drinking water)	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	N N
				Nitrite (N) - 1000 ug/L (drinking water)		
AK	10 2009	2008		Total Nitrate + Nitrite (N) - 10,000 ug/L (drinking water) Phosphorus - 0.1 ug/L (marine aquatic life)		N N

AK	10 2	2009 2009	in which supplies agriculture water than 7 mg/L; the industrial water s contact recreation growth/propagation waters used by an in the interstitial water by an adromous of 17.0 mg/L. The consample collection (Marine): aquaculture, consorted on the aquatic life surface DO consorted when natural compoint beneath the mg/L except when	upply - DO must be greater than or equal to 4 mg/L (not applicable is are taken from below the thermocline or to groundwater) or supply - DO must be greater than 3 mg/L aquaculture water supply concentration of any dissolved gas may not exceed 110% of sail supply - may not cause detrimental effects on established water is supply - may not cause detrimental effects on established water is ston, secondary contact recreation - DO must be greater than or estion of fish, shellfish, other aquatic life and wildlife - DO must be granadromous or resident fish. In no case may DO be less than 5 waters if gravel used by anadromous or resident fish for spawning or resident fish, DO must be greater than 5 mg/L. In no case may concentration of total dissolved gas may not exceed 110% of sate on. Intact recreation, secondary contact recreation, growth and propate, and wildlife, and harvesting for consumption of raw mollusks or incentration in coastal water may not be less than 6.0 mg/L for a denditions cause this value to be depressed, DO may not be reducted as surface. DO concentrations in estuaries and tidal tributaries may need a noticely and conditions cause this value to be depressed. In no case. The concentration of total dissolved gas may not exceed 110%.	oply - DO must be greater aturation supply treatment levels equal to 4 mg/L greater than 7 mg/L in mg/L to a depth of 20 cm ng. For waters not used by DO be greater than turation at any point of agation of fish, shellfish, other raw aquatic life - depth of one meter except ced below 4 mg/L at any nay not be less than 5.0 ase may DO levels				-2-	1,2											N N	
AK	2	2009 2009	not, alone or in cobjectionable defundesirable or not growth/propagati substances, be pundesirable or not (marine): aquaculture, sea consumption of resubstances be pundesirable or not consumption of resubstances be pundesirable or not growth/propagation other substances	hwater): upply, agriculture, aquaculture, industrial, contact recreation, seconombination with other substances be present in concentrations of eposits, constitute a nuisance, produce objectionable odor or tast nuisance species. tion of fish, shellfish, other aquatic life, wildlife - may not, alone or present in concentrations or amounts that form objectionable deponders appears and processing, industrial, contact recreation, secondary recreation moduluses or other raw aquatic life - may not alone or in combination of fish, shellfish, other aquatic life and wildlife - may not alone as be present in concentrations or amounts that form objectionable as be present in concentrations or amounts that form objectionable as be present in concentrations or amounts that form objectionable as be present in concentrations or amounts that form objectionable nuisance species.	or amounts that form te, or result in r in combination with other posits or results in eation, harvesting for bination with other posits, constitute a ce species. e or in combination with						1			1		1						
AK		2009 2009	Turbidity (Freshwidrinking water - rand may not have not to exceed a ragriculture - may aquaculture, growabove natural contact recreation or less and may NTU, not to exceed above natural turned secondary recreen NTU or less and than 50 NTU not 5 NTU above natural turned for the second processed industrial - may ragrowth/propagation mollusks or other	water): may not exceed 5 NTU above natural conditoins when natural tuve a more than 10% increase in turbidity when the natural turbidity maximum increase of 25 NTU. y not cause detrimental effects on indicated use bowth/propagation of fish, shellfish, other aquatic life, and wildlife - nonditions, and for lake water, may not exceed 5 NTU above natural not cause detrimental effects on established water supply treatment on any not exceed 5 NTU above natural conditions when the natural turbidity when the natural turbidity when the natural turbidity eation - may not exceed 10 NTU above natural conditions when red may not have more than 20% increase in turbidity when the natural to may not have more than 20% increase in turbidity when the natural to exceed a maximum increase of 15 NTU. For all lake waters, to to exceed a maximum increase of 15 NTU. For all lake waters,	may not exceed 25 NTU ral conditions nent levels ratural turbidity is 50 NTU urbidity is more than 50 y may not exceed 5 NTU natural turbidity is 50 ural turbidity is greater , turbidity may not exceed J bly treatment or consumption of raw on point for				2					2	1,2						N N	
IAN		2009			103	32	9 7 5	1 0	37 6	10	0 0	0 0	6	1 0	0 8	0	0 0 1	0 0 12 0 0	0 0 12 0 0 0	0 0 12 0 0 0 0 0	0 0 12 0 0 0 0 0 0 0	5 21 18 2 10 1 38 1 0 0 0 0 0 12 0 0 0 0 0 0 0 0 0 0





Adverse natural conditions, Overenrichment, Nutrient, Nuisance Species, Nuisance conditions, Natural Conditions Natural conditions Natural background	
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	Natural conditions
Natural background	
Natural background	
Natural background	
	Natural background







Defines cultural eutrophication, nuisance species, naturally-occurring conditions.		



Natural background conditions, cultural
eutrophication
Ecoregions
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Cell: D4
Comment: Tt-Emma Buccambuso: ADEC 18 AAC 70 - Water Quality Standards.
     Cell: E11
Comment: Greg Savitske:
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Reg. 2.509 ¶1 satisfies the response variable for "Nuisance aquatic vegetation/algae/species"

Cell: E12

Comment: Greg Savitske:

Reg. 2.509 ¶1 satisfies the response variable for "Nuisance aquatic vegetation/algae/species"

Cell: E13

Comment: Greg Savitske:

Duplicate entry (see row 10 above)

Cell: F35

Comment: DStephan:

These Standards will apply in the DE river basin States (NJ, PA, DE). It is unclear as to if any State has adopted these standards yet.

Cell: A40

Comment: DStephan: FL has not been updated to reflect the New Rule on Numeric criteria for inland waters.

Cell: F67

Comment: DStephan:

Is this really a Nutrient-

related Standard?

Cell: F107

Comment: Jennifer Koch:

couldn't seem to find a numeric in the Circular. John Dunn - Do you have any better information on this Standards?

Cell: D215

Comment: Tt-Emma Buccambuso: Alaska Water Quality criteria Manual for Toxic and Other Deleterious Organic and Inorganice Substances (2008)

	Sum narrative Sum	ı Sum	Su nai	m Su rative nai		Sum narrative	Sum numeric	Sum	Sum
State	nutrients narr	ative N narra	tive P Nit	rates Ph	osphates '	"nutrients"	nutrients	numeric N	numeric P
CT	4	1	2	0	0	1	2	3	0
MA	0	0	0	0	0	0	0	0	0
ME	1	0	0	0	0	1	0	4	0
NH	4	2	2	0	0	0	0	4	0
RI	2	0	0	0	1	1	1	1	0
VT	2	0	1	1	0	0	1	1	0
NJ	1	0	0	0	0	1	1	4	0
NY	2	1	7	0	0	0	0	1	0
PR VI	0	0	0 0	0	0	0	1	0	0
DC	0	0	0	0	0	0	0	0 0	0
DE	2	0	0	0	0	3	3	1	0
MD	3	0	0	0	0	0	0	0	0
PA	0	0	0	0	0	0	0	0	0
VA	2	0	1	0	0	1	1	1	0
WV	0	0	Ò	0	0	0	1		0
AL	0	0	0	0	0	0	0	0	0
AR	2	0	0	0	0	2	2	1	0
FL	4	1	1	0	0	2	1	4	0
GA	0	0	0	0	0	0	2	0	Ō
KY	2	1	1	0	0	0	0	1	0
MS	0	0	0	0	0	0	0	0	0
NC	1	0	0	0	0	1	2	4	0
SC	1	0	0	0	0	1	2	4	0
TN	2	0	0	0	0	2	1	1	0
FL	4	1	1	0	0	2	1	4	0
IL	0	0	0	0	0	0	2	0	0
IN	0	0	0	0	0	0	0	0	0
MI	1	0	0	0	0	1	1	4	0
MN	1	0	1	0	0	0	2	4	0
ОН	3	0	1	0	0	2	1	1	0
WI	3	0	1	0	0	2	0	1	0
AR	2	0	0	0	0	2	2	1	0
LA	3	1	1	0	0	1	0	1	0
NM	1	0	0	0	0	1	0	4	0
OK TV	2	0	0	0	0	2	0	1	0
TX	1	0	0	0	0	1	0	4	0
IA KS	0	0 0	0	0 0	0 0	0 3	0	0	0
MO	3 0	0	0 0	0	0	0	2 1	1 0	0
CO	0	0	0	0	0	0	0	0	0
MT	0	0	0	0	0	0	3	0	0
ND	0	0	0	0	0	0	3	0	0
SD	0	0	0	0	0	0	1	0	0
UT	0	0	0	0	0	0	Ó	0	0
WY	0	0	0	0	0	0	0	0	0
AZ	1	1	0	0	0	0	2	4	0
CA	3	1	1	0	0	1	0	1	0
HI	0	Ö	Ö	0	0	0	22	0	0
NV	0	0	Ö	0	0	0	3	0	0
AK	Ō	Ö	Ö	Ö	0	0	0	0	0
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OR	0	0	0	0	0	0	2 0 0
WA	0	0	0	0	0	0	1 0 0

Sum	Sum	Sum
numeric	numeric	numeric
Nitrates	Phosphates	"nutrients"
0	0	#REF!

0	0	#REF!
0	0	#REF!
0	0	#REF!